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## **RVSS Upgrade Tier 1 Decision Brief**

**Date: October 14, 2015**

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BW FOIA CBP 001451



# Purpose and Desired End State

## Purpose:

- Obtain the decision for execution of the recommended Tier 1 (0-2 years) Courses of Action (COAs) from Chief [REDACTED] and Chief [REDACTED] for both Rio Grande Valley Sector (RGV) and Laredo Sector (LRT)

## The Desired End State:

- RGV: Technology deployed in priority AOR(s) earlier than current schedule
  - Move first RGV deployment up six to nine months
- LRT: Improved capability deployed within two years:
  - Legacy LRT RVSS performance and reliability improved
  - Mitigate urgent and compelling LRT surveillance gaps in priority areas
    - Increased surveillance of key terrain
    - Improved situational awareness in key terrain
  - Communications connectivity and reliability increased

**CGAP Requirements and Desired Tier 1 Capability**



# RGV COA #1

- **Procure re-locatable towers for selected AOR(s) – phased deployment**
  - Utilize existing GDOS technology deployment CLIN for selected AOR(s)
  - Complete C2 and station tower modifications for priority AOR(s) as planned
  - Suggest **(b) (7)(E)** AOR first (in **GREEN** below) – High priority AOR

Station	RVSS Sensor Towers (New)	RVSS Towers Existing (Upgrade)	Technology Upgrade (M)	Re-locatable Towers (M)	C2 Cen (M)	CMLS*** (24 Months) (M)	Total Costs (M)
(b) (7)(E)							
Total				(b) (7)(E)			

- Allows evaluation of re-locatable towers (3-4 months) once deployed

**First Deployment in RGV 6 to 9 Months Earlier**

\* Top 3 Priority AORs

\*\* **(b) (7)(E)**

\*\*\* O&M funding required<sup>3</sup>



## RGV COA #2

- **Provide small pilot with fully mobile system for one AOR**
  - Up to (b) (7)(E) re-locatable towers and also a fully mobile C2 for selected AOR
    - Mobile C2 less permanent and has potential as a stop-gap capability
    - Inexpensive option as long term C2 infrastructure is completed
    - Can be deployed where needed – easily moved (b) (7)(E)
  - Use GDOS technology deployment CLIN for selected AOR
    - Modifying GDOS contract CLIN will be required
    - Will cause additional cost and schedule risk
  - Can be deployed in ~12-18 months (more detail pending)
  - Allows evaluation of re-locatable towers (3-4 months) once deployed

RVSS Sensor Towers (New)	Technology Upgrade (M)	Re-locatable Towers (M)	Mobile C2 (M)	24 Mo. CMLS (O&M) (M)	Total (M)
(b) (7)(E)					

**Recommended COA: Provides Early Win in RGV**



## RGV COA #3

### Stay with current plan but prioritize AORs based on affordability:

- Assumes no FY17 D&D – funding limit between \$50-\$60M D&D
- For selected AOR(s) - subject to funding availability:
  - Assume the use of fixed tower construction for all sites
  - Complete C2 renovation(s) and station tower(s) as planned
  - Complete field tower construction for selected AOR(s), then
  - Exercise existing GDOS technology deployment CLIN(s)

Station / # new Towers	Technology Upgrade (M)	Fixed Tower Sites (M)	C2 Cen (M)	CMLS** (24 Months) (M)	Total Costs (M)
(b) (7)(E)					
Total	(b) (7)(E)				

\* Top 3 Priority AORs

\*\* O&M Funding

- Risk: Assumes a deployment delay in remaining RGV AORs
  - Still dependent on environmental and real estate activities

**Provides Deployment for up to 2 Priority AORs**



# LRT COA #1

- **Leverage FAA IAA to improve legacy RVSS performance and reliability:**
  - FAA has provided an assessment of legacy LRT RVSS - (i.e. similar to (b) (7)(E))
  - Leverage \$5M currently on the FAA IAA
- **ROM Cost**
  - Repair and replace (b) (7)(E) equipment where necessary
  - Cost - up to \$4.5M (based on (b) (7)(E) with (b) (7)(E) in LRT)
  - Expected to be covered from approved \$5M UFR
- **ROM Schedule**
  - 9-12 months from authority to proceed

**Increased Performance and Availability of Legacy System**



## LRT COA #2

- In addition to COA #1: Use re-locatable towers for additional sites
- Procure and deploy pilot re-locatable tower system in one AOR
  - Assumes one fully mobile C2
  - Tower site locations based on August LRT workshop
  - Recommend (b) (7)(E) as first AOR – highest priority (in GREEN below)
- Use GDOS for technology solution (sensor suites/C2 equipment/backhaul)
  - Will require J&A and contract modification - creates schedule risk to complete
- Possible to deploy within two years
  - Evaluate re-locatable tower performance once deployed (3-4 months)

AOR	RVSS Sensor Towers (New)	Technology Upgrade (M)	Re-locatable Towers (M)	Mobile C2 (M)	24 Mo. CMLS (O&M) (M)	Total (M)
(b) (7)(E)	(b) (7)(E)					(b) (7)(E)

**Recommended COA: Provides Early Win in LRT**





## Conclusion/Approval

- RGV – COA #2 - Provide small pilot with fully mobile system for one AOR
- LRT – COA #2 - Improve legacy system and,
  - Deploy pilot re-locatable tower system in one AOR

☒

Approve

☐

Disapprove

☐

Requires More Discussion

(b) (6), (b) (7)(C)

10/13/15

10-13-15